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	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/637,600	08/11/2003	Michael Buchholz	232238US0X	3515
	22850 7590 06/28/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.		EXAMINER		
	1940 DUKE ST	1940 DUKE STREET		SAYALA, CHHAYA D	
ALEXANDRIA, VA 22314		A, VA 22314		ART UNIT	PAPER NUMBER
				1761	
				NOTIFICATION DATE	DELIVERY MODE
				06/28/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Application No.	Applicant(s)			
Office Action Summan						
		10/637,600	BUCHHOLZ ET AL.			
	Office Action Summary	Examiner	Art Unit			
		C. SAYALA	1761			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on <u>03 April 2007</u> .					
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-4 and 6-31 is/are pending in the app 4a) Of the above claim(s) 12-22 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4 and 6-11, 23-31 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.				
Applicati	on Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	et(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 102/ Claim Rejections - 35 USC § 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 23, 26, 29 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Winterhalter et al. (US Patent 5972663).

The patent teaches a fermentative process that yields the compounds claimed.

See Tables 1-3 for amounts. The preamble "animal feed additive" is 'use' terminology and does not add any patentable weight. Besides, for composition claims, intended use of an otherwise old or obvious composition cannot render a claim patentable. In re Zierden, 162 USPQ 102, In re Jones, 50 USPQ 48, In re Spada, 15

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USPQ 2d, 1655, In re Thuau 57 USPQ 324. "[T]he lack of physical description in a product-by-process claim makes determination of the patentability of the claim more difficult, since in spite of the fact that the claim may recite only process limitations, it is the patentability of the product claimed and not of the recited process steps which must be established. We are therefore of the opinion that when the prior art discloses a product which reasonably appears to be either identical with or only slightly different than a product claimed in a product-by-process claim, a rejection based alternatively on either section 102 or section 103 of the statute is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make physical comparisons therewith." In re Brown, 459 F.2d 531,535,173 USPQ 685, 688 (CCPA) 1972). "[E]ven though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-byprocess claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. " In re Thorpe, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985).

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-11, 23-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Winterhalter et al. and Leinfelder et al. (US Patent 6218168) in view of Binder et al. (US Patent 5622710 and 6465025 and 5431933).

Both the primary patents teach the preparation of cysteine compounds in increased yields. The fermentation broth contains biotin, etc. and salts that contain cations that would yield salts of the amino acids. See for instance, col. 13, lines 49-50 in '663 and col. 5, lines 64-65 in '168. The references do not teach removing any part of the biomass or the application of the composition as a feed additive. However, prior art such as Binder et al. establish that it was known to use fermentation broth that comprised amino acids such as lysine, as animal feed additives. They also teach that the fermentation broth can be treated so as to contain all, none or part of the biomass. See the abstract in '710, col. 5, lines 5-10 and claim 9 in '025 and col. 7, lines 20-50, example 1, @ col. 8, lines 34-36 and example 4 @ lines 40-45 in '933. It would have been obvious to combine such aspects when the amino acids are cysteine compounds, because it was known in the art that sulfur containing compounds are useful as feed supplements, and to remove part or completely the biomass would also have been obvious since such an expedient was already shown and suggested by the Binder et al. patents. As for claims 10 and 11, animal feed additives in solid or liquid forms are

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shown by '710 and '025, and therefore, to formulate feed additives in a solid or liquid form would have been obvious from such teachings. Claims 23, 26 and 29 are in a product-by-process format and as such, it is the novelty of the instantly claimed product that needs to be established and not that of the recited process steps. In re Brown, 173 USPQ 685 (CCPA 1972); In re Wertheim, 191 USPQ (CCPA 1976).

Response to Arguments

Applicant's arguments filed 4/3/2007 have been fully considered but they are not persuasive.

First, applicant's entire discussion traversing the rejection at page 10 onwards, is based on process steps and the traversal of the 103 rejection is based on one reference not showing the process steps (Winterhalter et al.) and Leinfelder showing a different method of making and Binder et al. not teaching any cysteine compounds. Applicant is reminded that upon election of the product, the process claims were withdrawn. Yet, applicant re-introduced the process steps by presenting new claims in a product-by-process format. It is well established that a product-by-process claim is to a product.

Applicant states (emphasis added):

While the reference clearly describes the formation of L-cysteine which is oxidized readily to L-cystine by atmospheric oxygen, it does not describe a process of producing an animal feed, particularly the process of the present invention of preparing an animal feed as set forth in Claim 12 where a biomass containing cysteine compounds is separated from its

fermentation liquor and then the mixture obtained is concentrated by the removal of water. Since **the process is not taught or suggested by the reference**, it is clear that the animal feed material that results from the process is not taught or suggested...

Again, applicant's traversal appears to imply that the process steps need to be met, when the claims are clearly to a product.

As for the 103 rejection, it is clear that in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Election/Restrictions

This application contains claims 12-22 drawn to an invention nonelected with traverse in the reply filed on 10/13/2006. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Sayala whose telephone number is (571) 272-1405. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call

800-786-9199 (IN USA OR CANADA) or 571-272-1000.

C. SAYALA

Primary Examiner

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Group 1700.